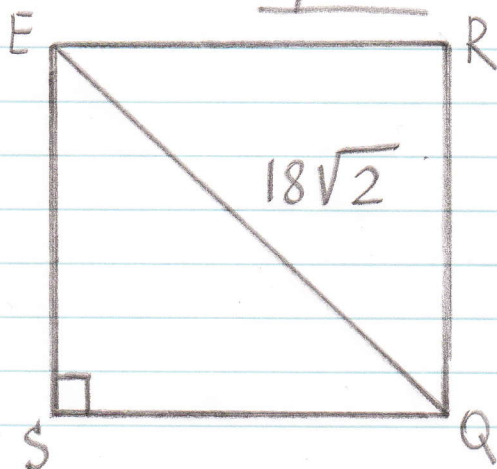


#6 3 pointsGIVEN: $\square ERQS$

$$EQ = 18\sqrt{2}$$

FIND: PERIMETER OF $\square ERQS$ $\triangle ERQ$ - ISOSCELES RIGHT TRIANGLE

$$m\angle REQ = m\angle RQE = 45^\circ$$

$$ER = RQ = \frac{18\sqrt{2}}{\sqrt{2}} = 18$$

$$\text{PERIMETER} = 18 \cdot 4 = 72$$

GEOMETRY

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#8 5 points

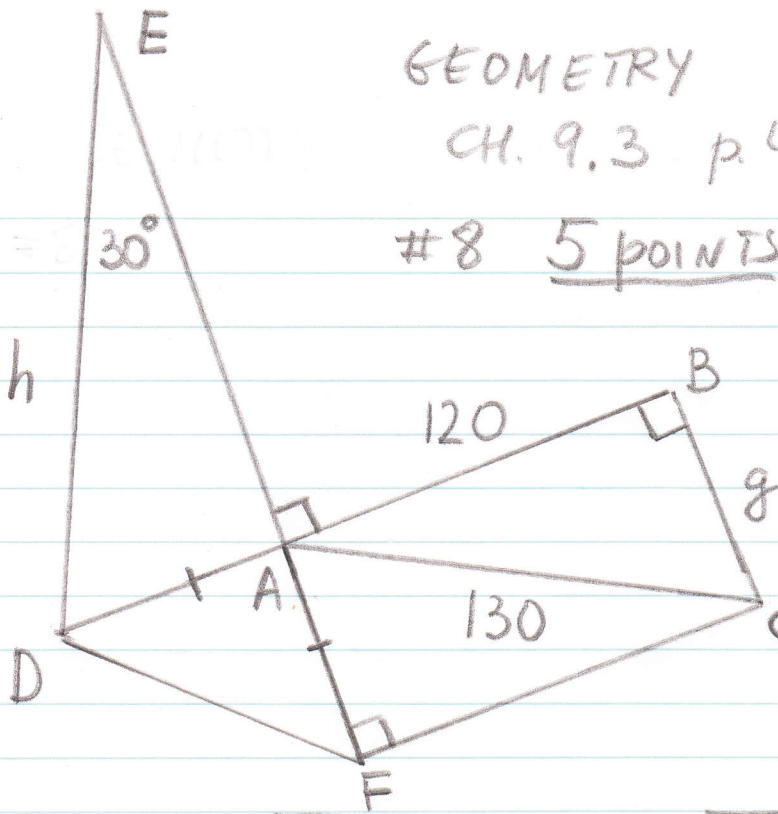
GIVEN:

$$AB = 120 \text{ cm}$$

$$AC = 130 \text{ cm}$$

$$m\angle E = 30^\circ$$

FIND: g - ? h - ?



$$BC = \sqrt{130^2 - 120^2} = \sqrt{16900 - 14400} =$$

$$= \sqrt{2500} = 50; \quad g = 50 \text{ cm}$$

$$BC = AF = AD = 50$$

$$m\angle EAD = 90^\circ; \quad \triangle AED - 30^\circ - 60^\circ - 90^\circ$$

$$ED = 2AD = 2 \cdot 50 = 100 \text{ cm}$$

$$h = 100 \text{ cm}$$